



FINAL

Former Naval Station Treasure Island Restoration Advisory Board (RAB) Meeting Minutes

Meeting 181

23 February 2016

Community Restoration Advisory Board (RAB) Members in attendance:

Nathan Brennan, Becky Hogue, Alice Pilram (Community RAB Co-Chair),
Dale Smith

Department of the Navy and Regulatory Agency RAB Members in attendance:

Keith Forman, Navy RAB Co-Chair
Remedios [Medi] Sunga, California Department of Toxic Substances Control
(DTSC)
Myriam Zech, San Francisco Bay Regional Water Quality Control Board
(Water Board)

Other Navy and Regulatory Staff and Consultant Representatives in attendance:

Dave Clark, Navy	Raymond Schul, CB&I
Yashekia Evans, Tetra Tech, Inc.	Nathan Schumacher, DTSC
Bill Franklin, Navy	Joe Sevcik, Navy
John Hackett, Chicago Bridge & Iron (CB&I)	Tommie Jean Valmassy, Tetra Tech, Inc.
Kimberly Noble, Navy	Chris Yantos, Navy
Julie Pettijohn, DTSC	

Public Guests in attendance:

Bob Beck, Treasure Island Development Authority (TIDA)	Max Garcia, John Stewart Company
Erick Brown, Catholic Charities	Carol Harvey, journalist
	Kathryn Lundgren, resident

Welcome Remarks and Agenda Review

Keith Forman (Base Realignment and Closure [BRAC] Environmental Coordinator [BEC]) opened the February 2016 RAB meeting for the Former Naval Station Treasure Island (NAVSTA TI) held at the Casa de la Vista (Building 271) on Treasure Island (TI). Mr. Forman introduced participants. Mr. Forman reviewed the agenda (Attachment A), noting designated times for community question and answer periods.

Old Business – RAB Minutes Approval

Minutes for meeting 180, December 2015, were presented for approval. Nathan Brennan (RAB member) said he had a question about a statement in the minutes, though not a correction. On page 6, there is a statement that the Navy no longer owns any portion of Yerba Buena Island (YBI), and he asked if that statement is

TRIE-2205-0058-0234

correct. Mr. Forman said that statement is correct. However, the Navy is responsible for monitoring or cleanup for certain sites on YBI.

Dale Smith (RAB member) provided edits. The RAB voted to approve the minutes with Ms. Smith's comments incorporated.

Old Business – BRAC Cleanup Team Update

Medi Sunga (DTSC) introduced DTSC's Community Involvement Specialist, Nathan Schumacher, and their new supervisor, Julie Pettijohn. Ms. Sunga said DTSC, with the support of the California Department of Public Health (CDPH), has reviewed numerous radiological documents since the last RAB meeting, including the Avenue N Historical Stave Pipe Removal Work Plan, the Final Status Survey Report for Building 3 and the radiological survey report for wastewater lines downstream of Building 3. CDPH also issued a letter recommending radiological free release for Bigelow Court, which is within Site 12. In addition, DTSC completed its review of the Action Memorandum for the Arsenic and Total Petroleum Hydrocarbon removal action on Gateview Avenue.

Myriam Zech (Water Board) said her agency reviewed the Site 32 Record of Decision, the Site 6 Remedial Action Work Plan, and the Proposed Plan/Draft Remedial Action Plan for Site 12. Ms. Zech said the Water Board's on-line document repository, GeoTracker, is being updated and documents will soon be easier to find. Anyone looking for a particular document who cannot find it on GeoTracker should let Ms. Zech know so she can upload it or make it easier to find. She noted that she is adding in document descriptions so documents do not have to be downloaded and opened, only for the user to find it is not the document sought.

New Business – Field Work Update: Site 12

Mr. Forman introduced Chris Yantos (Navy) to present the update on the field work in Site 12 (Attachment B). Mr. Forman noted that this project is large, and Mr. Yantos has provided updates at the previous four or five RAB meetings. Mr. Yantos said there are three solid waste disposal areas: Westside, North Point, and Bayside. He will provide an update of the work at all three.

December and January saw a lot of rainfall, limiting the amount of excavation and scanning that could be done. As a result, work during those months focused on disposal of the soil that had already been excavated and scanned.

Beginning with an update of North Point, Mr. Yantos said the area is divided into four survey units. Debris has been completely removed from three of the four survey units, and sampling continues. As mentioned at previous RAB meetings, it was decided that Building 1235 must be demolished. Preparation for

demolition, including radiological scanning and asbestos abatement, is complete, and demolition of Building 1235 will begin soon.

Mr. Yantos showed photographs of the progress at North Point. To date, 18 low-level radiological objects (LLRO) have been found at North Point.

Mr. Yantos moved on to the update of Bayside, which is about 65 percent complete. Initially, the Navy expected to find debris at a depth of about 4 feet; however, so far debris has been encountered to a depth of about 8 feet. To date, 69 LLROs have been found at Bayside. Mr. Yantos showed a photograph of the excavation near Building 1205 on Bayside. This area is dry, and the photograph shows the sidewalls and bottom of the excavation. The other survey units look the same, but it is not possible to see the sidewalls and bottom because of groundwater infiltration. The photograph showed small orange flags where the project engineers marked the locations for collecting samples for chemical or radiological analysis. Once the data from the samples are returned, the excavation can be backfilled, depending on the results. Work remaining in the Bayside area is excavation of the historical burn area, which is expected to be about 8 feet below ground surface.

Mr. Yantos moved on to an update of SWDA Westside. In the past several months, the Navy's excavation work has been focused on what is referred to as the 1321 deep waste area. As discussed at previous RAB meetings, the field team installed slide railing to keep the excavation from collapsing. The excavation is 60 feet wide and 60 feet long, and the depth is increasing. To date, about 450 cubic yards of material has been excavated in this area, which makes the excavation 35 percent complete.

Another component of the cleanup at Westside is screening for possible munitions. A team of munitions experts is screening excavated material, and to date 50 munitions-related items, all inert, have been found. Currently, it is anticipated that the excavation at Westside will be to a depth of 12 to 14 feet.

All of the soil from the excavations is hauled to the northeastern corner of Site 32, where it is laid out, dried, scanned and sampled. The soil that does not have radiological detections is then loaded on trucks and hauled off site to a landfill in Buttonwillow, California. So far, approximately 9,000 tons of soil have been hauled off site.

Mr. Yantos reviewed the safety measures for this removal action work. When trucks are loaded, a "spotter" stands next to the truck to ensure no soil is dropped outside of the tarped area where the truck is parked for loading. Wheels are brushed and the trucks are tarped once they are filled with soil.

Mr. Yantos summarized the count of LLROs found to date. Island-wide, a total of 813 have been found; 203 of them are from this removal action project. The schedule includes backfill for all of the excavations by June, continuing off-site soil disposal of stockpiled material through July, and project documentation in August.

Becky Hogue (RAB member) asked when the fences on North Point and Bayside will be taken down to allow through traffic on the street and open up more parking. Mr. Yantos said those fences will remain in place through the backfill period, so they will remain in place through July 2016.

Ms. Smith noted North Point is the site of the former incinerator. She asked if the Navy is testing for heavy metals and dioxins based on historical incinerator use. Mr. Yantos confirmed certain metals and dioxins are contaminants of concern that are being investigated at the site. Ms. Smith asked about the health and safety equipment for workers conducting asbestos abatement in preparation for building demolition. Ray Schul (CB&I) said workers wear the required safety equipment, which includes a half-face respirator.

Ms. Smith asked how the sidewalls of the excavation will be sampled if a slide rail is in place. Mr. Yantos said a 3-foot cut of the sidewall will be removed from the exterior of the 60- by 60-foot box as part of the backfill process. Clean soil and rock will be placed into that cutout area to separate it from the excavation area. Mr. Yantos said that the slide rail excavation area is one specific excavation area; however, the area surrounding that deep excavation will also be excavated later. As a result, ultimately the remaining sidewall will be removed in a future excavation.

Alice Pilram (Community RAB Co-Chair) asked how the Navy is disposing of the rainwater that infiltrates the trenches. Mr. Yantos said the Navy is not removing the water. The rainwater naturally settles out, so it has not been necessary to pump it out of the trenches.

Kathryn Lundgren (community member) asked for the precise numbers of the highest and the lowest radiological detections for the project. Mr. Schul said he does not have that data with him. He will provide those values to the Navy.

Ms. Lundgren asked when the Navy will address the other burn area, located on Westside Drive. Mr. Forman said that area is outside of this current project area. The area Ms. Lundgren is referring to is covered under a Proposed Plan for Site 12. There will be a public meeting to discuss and take comments on the Proposed Plan. The meeting will be at the RAB meeting location, the Casa de la Vista, at 6:00 p.m. on Wednesday, March 30, 2016, and all residents are encouraged to attend.

Ms. Lundgren asked about the air and dust monitoring system the Navy is using. She requested that the monitors be moved closer to the occupied housing. She also requested that the heights of the monitors be varied to account for different heights of residents and the different paths of the wind. Mr. Yantos said the air and dust monitoring programs have been discussed at several past meetings, so he does not have those slides. The program is designed to represent the most at-risk receptor, which is the receptor within the work area or downwind from the work. The height of the monitors is within the breathing zone, which is a standard monitoring design based on the requirements of the Bay Area Air Quality Management District. The field team also uses wind socks and a wind rose to help select the best placement for the monitors. Mr. Yantos said monitoring reports are available on-line if Ms. Lundgren would like to see the site-collected data.

Ms. Lundgren said in 2007 someone came into her home and collected some type of a swipe sample. She asked if there are plans to repeat that test, and if the Navy could collect a sample of dust from her home. Mr. Forman said the Navy does not have any plans for such testing. The Navy is following very conservative protocols in the area of the work, which is appropriate and in accordance with State of California and federal protocols. Ms. Lundgren said she feels it would be appropriate for testing inside of homes and believes the California Department of Public Health should require the Navy to do that.

New Business – Avenue N Wood Stave Pipe Investigation and Removal

Mr. Forman introduced Kimberly Noble (Navy) to provide the update (Attachment C). Ms. Noble said she is new to Navy BRAC and pleased to be presenting to the RAB for the first time. She is a hydrogeologist and served as a radiological chemist early in her career.

Ms. Noble showed a map of the Avenue N wood stave pipe project area. The pipe is an inactive storm drain line constructed of wood. It was installed in the late 1930s, at a time when it was common to use wood for storm drains. The line was decommissioned in the 1970s, and the easternmost portion of the pipe was removed at that time. Concrete slurry was poured into the void left by the removed portion of the pipe.

The objectives of the project were to locate, excavate, and then characterize the wood stave pipe. Located above the wood stave pipe was a concrete swale, which is a depression used to divert and convey water. The swale had to be destroyed to access the wood stave pipe. The field team had to install a bypass line for storm water before the swale could be destroyed. Ms. Noble showed a photograph of the bypass line that was installed and said it worked exceptionally well during the rainy weather.

Ms. Noble said there are two electrical lines coming into an electrical transformer that serve as the main electrical supply to Treasure Island near a portion of the wood stave pipe. As a result, the field team did not disturb those areas and did not excavate the portion of the wood stave pipe near the transformer.

Pre-construction work, including traffic controls, began in early December 2015. Then, the bypass line was installed, the swale was removed, and the wood stave pipe was excavated. As of this meeting, excavation is complete and all of the soil has been scanned and samples have been sent for laboratory analysis. Approximately 108 feet of wooden pipeline was removed, and 438 cubic yards of soil was excavated. Ms. Noble showed photographs of pieces of the wood stave pipe. Ms. Noble said the on-site activities will be completed by late March or early April 2016.

Carol Harvey (journalist) asked if the pipeline area is visible to the public, or if it is behind construction fences. Ms. Noble said it is behind construction fences. Ms. Harvey asked what the site will look like when the project is complete. Ms. Noble said a concrete swale will be rebuilt and the area will generally look just as it did before.

New Business - Document Tracking Sheet and Field Schedule

Mr. Clark presented the Document Tracking Sheet (DTS) (Attachment D) and the Field Schedule (Attachment E). The DTS is organized with radiological documents listed first, and then the rest of the documents are listed by site. Mr. Clark noted that field work will continue to be busy, with upcoming work at Site 6 and additional work within Site 12 under a different project, and then work at Site 24. The Navy will continue to work with TIDA and the housing providers to provide advance notice of street closures, traffic restrictions, and anything else residents need to know about field work.

New Business - Co-Chair Announcements and Future Agenda Items

Ms. Smith noted extensive time is spent on updates about Site 12, but she would like presentations on the other work being done and documents being prepared. Mr. Forman said in 2015 the primary field work was within Site 12. He said the Navy will provide future RAB presentations on other work, especially now that there are several other upcoming projects.

Ms. Smith asked if the Navy would like hard copy documents that she is done with or if she should give them to her local city to recycle. Mr. Clark said the Navy is happy to take documents, or Ms. Smith can provide a list of what she has. If the Navy already has a hard copy in the information repository, then it is not needed and Ms. Smith can recycle as appropriate.

Ms. Hogue asked how the Navy will let residents know of upcoming work, including street closures. Mr. Forman said the Navy provides work notices and fact sheets and uses the Nextdoor website that is used by many Treasure Island residents. Ms. Hogue said the road closure near Avenue N that Ms. Noble discussed was confusing to many residents. In addition to stating there will be a road closure, Ms. Hogue asked that notice include why the road will be closed.

Ms. Pilram asked when the upcoming Proposed Plan community meeting will be held. Mr. Forman said the Site 12 Proposed Plan/Draft Remedial Action Plan public meeting will be held from 6:00 p.m. to 7:30 p.m. on Wednesday, March 30, 2016. A notice for the meeting along with the Proposed Plan/Draft Remedial Action Plan document will be distributed to the full mailing list.

Mr. Forman said, as noted at previous RAB meetings, that the opportunity to use the Casa de la Vista for RAB meetings is limited because the city will soon begin redevelopment projects in this area. However, the April RAB meeting will be at the Casa de la Vista, and the Navy is working with TIDA to find an alternative on-island venue for future meetings.

Community Question and Answer Period

Ms. Harvey said she was walking near the area of former Building 233 and there are still radiological signs on the fences, though Mr. Clark had stated that the Building 233 Final Status Survey document is complete. She asked when that document was completed, and why radiological signs remain in place. Mr. Clark said the Building 233 document was finalized in December 2014. Mr. Forman said there is follow-on work in the area, and that is why the signs remain in place. He offered to meet Ms. Harvey at the information repository in Building 1 and help her find the document.

Ms. Harvey asked why there are radiological signs near Site 32, and if that is where the training ship USS Pandemonium was located. Mr. Forman reminded Ms. Harvey that Site 32 is a staging area for the soil removed from the solid waste disposal areas within Site 12, which is the subject of the updates provided by Mr. Yantos. The soil is screened there before it is disposed of off-site.

Ms. Harvey asked when Building 1321 was demolished. Mr. Schul said Building 1321 was demolished in 2014, in what is known as Phase II of this cleanup project in Site 12.

Ms. Harvey announced that she has uploaded 2 years' worth of RAB videos to her YouTube channel — carol harvey sf. She said anyone who wishes to watch the videos of these meetings is welcome to do so.

Closing Remarks

Mr. Forman thanked everyone for attending. The next RAB meeting will be Tuesday, April 19, 2016. The meeting was adjourned at 8:52 p.m.

Action Items

#	Action Item	Due Date	Status
	Provide a Site YF3 Presentation	During 2016	Pending
	Provide the highest and lowest radiological detections (in millisieverts) for this Site 12 project to Kathryn Lundgren.	April 2016	Email sent from Navy Public Affairs Officer on 4/12/16.

23 February 2016 RAB Meeting Handouts

- Attachment A: NAVSTA TI RAB Meeting No. 181 Agenda
- Attachment B: Site 12 Field Work Update
- Attachment C: Removal and Final Status Survey of Historic Avenue "N"
Wood Stave Pipe
- Attachment D: Document Tracking Sheet
- Attachment E: Field Schedule

AGENDA
NAVAL STATION TREASURE ISLAND
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING
Tuesday, 23 February 2016
Casa de la Vista Building 271, Treasure Island
MEETING NO. 181

I. WELCOME REMARKS AND AGENDA REVIEW

7:00 – 7:05 Welcome, Introductions
Lead: Keith Forman, Navy Co-Chair

7:05 – 7:10 Agenda Review
Lead: Alice Pilram, Community Co-Chair

II. OLD BUSINESS

7:10 -7:20 RAB meeting Minutes Approval Meeting 180
Lead: Keith Forman, Navy Co-Chair

7:20 – 7:30 BRAC Cleanup Team Update
Leads: DTSC and Water Board

III. NEW BUSINESS

7:30 – 8:00 TI Field Work Update: Site 12
Lead: Chris Yantos
Presentation Q&A : RAB
Presentation Q&A : Community

8:00 – 8:20 Avenue N Wood Stave Pipe Investigation and Removal
Lead: Kimberly Noble
Presentation Q&A : RAB
Presentation Q&A : Community

8:20– 8:30 Document Tracking Sheet and Field Schedule
Lead: Dave Clark, Navy

8:30 – 8:40 Co-Chair Announcements and Future Agenda Items
Leads: Alice Pilram and Keith Forman

IV. COMMENTS ON NON-AGENDA ITEMS

8:40 – 9:00 Community Question and Answer Period
Lead: Keith Forman, Navy Co-Chair

9:00 Adjourn

Next Regular Meeting: No March 2016 Meeting

7:00 pm Tuesday, April 19, 2016 location Casa
de la Vist

Next Treasure Island Citizen's Advisory Board (CAB) Meeting: See the web site for latest dates
and times for future meetings: www.sftreasureisland.org

Next Interim RAB Community Member Conference Call: 7:00 p.m. Tuesday, 29 March
2016

Navy BRAC Web Site: <http://www.bracpmo.navy.mil> (click on map for Treasure Island)

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Director
Navy BRAC PMO West
33000 Nixie Way
Building 50, Attention Keith Forman
San Diego, CA 92147

Keith Forman: *(619) 524-6073
Local phone number (unchanged) (415) 308-1458

*Note, this address and phone are new as of July 20, 2015



**Site 12 Field Work Update
Westside/ Bayside/ North Point**

**NAVAL STATION TREASURE ISLAND
SAN FRANCISCO, CALIFORNIA**

Restoration Advisory Board Meeting
February 23, 2016

Presentation Overview - What you will hear today!



Site 12 Field Work Update

- Project Status: North Point
- Project Status: Bayside
- Project Status: Westside
- Building 1321 "Deep Waste Area" Excavation
- Waste Disposal:
 - Low Level Radiological Waste (LLRW)
 - Soil Disposal
- Safety Measures During Soil Disposal
- Activity Schedule

Project Status: Disposal Area North Point



- Significant weather impacts in Dec and Jan slowed excavation
- Soil excavated : **7,878 cubic yards (75% complete)**
- Completed removal of deep debris in 3 of the 4 survey units
 - Debris ranges from 8 to 11 feet deep
- Building 1235
 - Completed rad survey and asbestos abatement on Feb 22
 - Demolition scheduled week of Feb 29
- Backfilled 2 of 4 survey units
- 18 rad objects removed from Disposal Area North Point

3

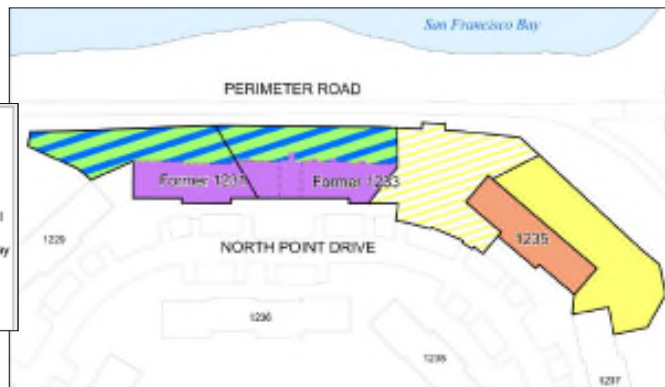
BRAC Program Management Office.

February 2016

Project Status: Disposal Area North Point



- Legend**
- Excavated Clean Backfill
 - Excavated Buffer Material
 - Excavated Impacted Material
 - Remediation Work Under Way
 - Backfilled
 - Partially Backfilled



4

BRAC Program Management Office.

February 2016

Building 1235: Radiological Survey



Radiological surveys performed on exterior of building



Floors and walls were rad surveyed and cleared

Building 1235: Asbestos Abatement



Building 1235 Asbestos Abatement - Sealing all windows and doors to create negative air pressure conditions indoors so no material can escape.

Project Status: Disposal Area North Point



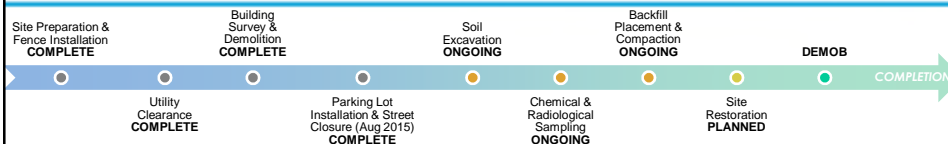
Upcoming Work:

- Complete deeper debris removal in the remaining survey unit (1 of 4)
- Feb 2016 – Building 1235 demolition
- March 2016 – Debris removal beneath Building 1235
- Collect samples and backfill excavated areas



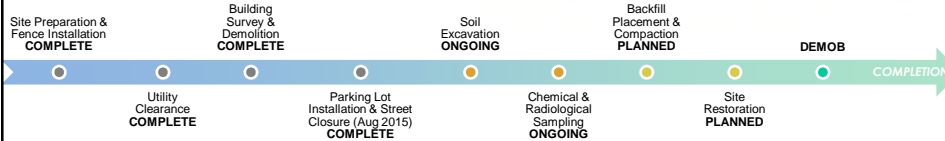
Excavating remaining debris identified in Survey Unit 3
Excavation continues until all debris (cables, bottles, welding rods, metal pieces) is removed.

Project Status: Disposal Area Bayside



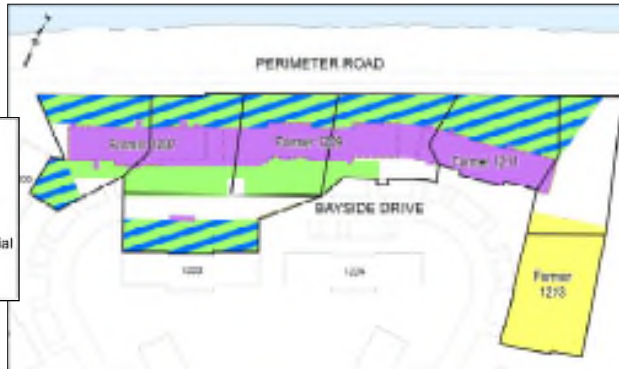
- Soil excavated : 8,245 cubic yards (63% complete)
- Radiological surveys and confirmation sampling ongoing
- All four concrete building foundations rad cleared
- Backfill of Survey Unit 1 complete
- 69 LLROs removed from Disposal Area Bayside

Project Status: Disposal Area Bayside



Legend

- Excavated Clean Backfill
- Excavated Buffer Material
- Excavated Impacted Material
- Backfilled



9

BRAC Program Management Office.

February 2016

Project Status: Disposal Area Bayside



Marked out chemical confirmation sample locations



Survey unit 7 in front of Building 1205
Rad and chemical samples verified bottom and sidewalls are clean

"Historic Burn Area" boundary staked out in preparation for additional excavation



"Historic Burn Area" to be excavated within Disposal Area Bayside

10

BRAC Program Management Office.

February 2016

Project Status: Disposal Area Bayside



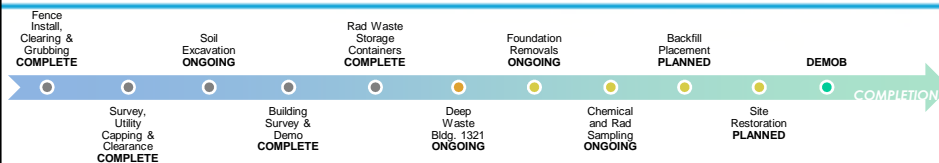
Upcoming Work:

- Continue backfill of remaining survey units
- Removal of deeper debris and rad objects at "Historic Burn Area"
- Radiological survey and confirmation sampling



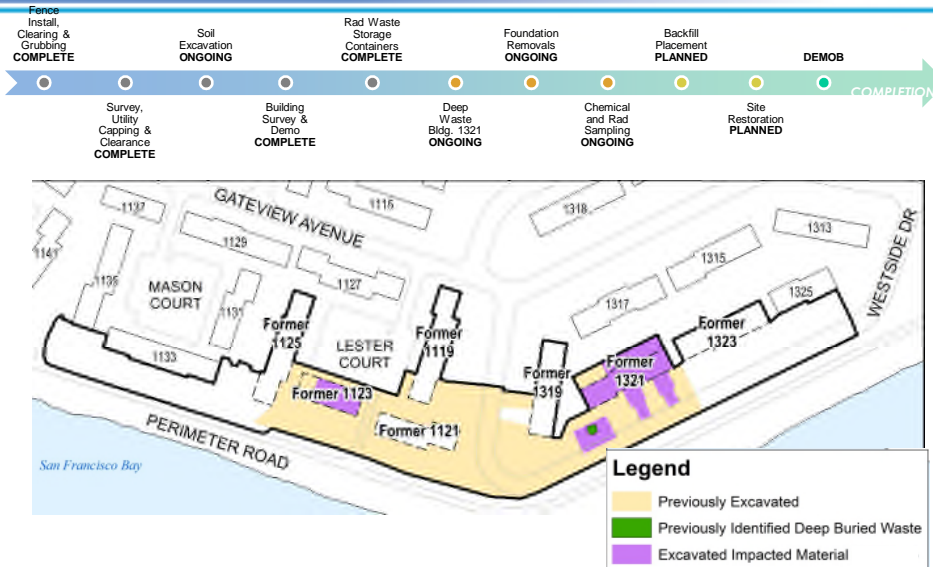
Survey unit 1 at Bayside (former building 1213 area) is backfilled using clean fill.

Project Status: Disposal Area Westside



- FOCUS: Former building 1321 deep waste area
- Completed installation of slide rail system to safely excavate deep waste area in Building 1321 footprint
- Soil excavated : 450 cubic yards (~35% complete)
- Segregated 50 inert munitions items from waste
- Completed rad scan, sampling, and removal of 5 concrete building foundations
- Completed offsite shipping of sorted rad waste storage containers
- 116 LLROs removed from Disposal Area Westside

Project Status: Disposal Area Westside



13

BRAC Program Management Office.

February 2016

Project Status: Disposal Area Westside



Upcoming Work:

- Complete debris removal in deep waste area (Building 1321 area)
- Survey and clearance of deep waste area (Building 1321 area)
- Complete removal of the remaining two building foundations (former buildings 1319 and 1323)
- Backfill of deep waste area (Building 1321 area)



Installing slide rail within the deep waste disposal area to ensure safe excavation to deep depths (14 feet). Ropes are used to guide the support beams into place.

14

BRAC Program Management Office.

February 2016

Project Status: Disposal Area Westside



Excavation within slide rail: chain, metal, welding rods, etc. are removed



Debris removed from the deep waste area (Building 1321 area). Debris and soil must be dried before it is radiologically scanned.

Low-level Radiological Waste (LLRW)



- To date, 49 roll-off bins (~735 cubic yards) have been filled with low-level radiological waste (LLRW)
- LLRW bins are loaded with material that does not meet the stringent soil release criteria
- Bins are transferred to Treasure Island LLRW waste contractor for offsite disposal



Loading of bin with material from deep waste area (Building 1321 area)

Soil Disposal: Loading and Haul-Out

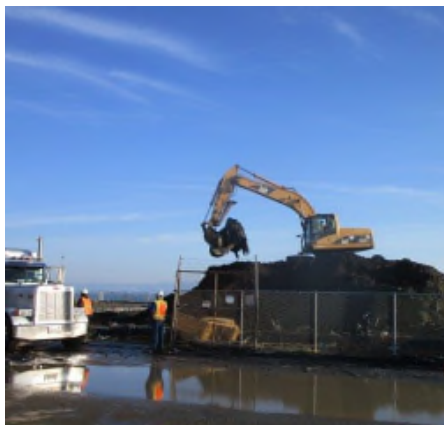


- 5,390 cubic yards (approx. 9000 tons) of waste soil has been loaded and hauled off site
- 397 trucks
- Soil was disposed offsite at the Clean Harbors facility in Buttonwillow, CA



Loading of waste at Site 32

Soil Disposal: Loading and Haul-Out



Hauling from Site 32
20-40 trucks per day were filled and transported soil to the offsite facility.

Safety Measures during Soil Disposal: Spotting, Tarping, & Truck Cleaning



Truck being guided to loading position by a spotter.



Cleaning tires on trucks prior to leaving the site.



Tarpping of load prior to leaving the site.

Activity Schedule: Monthly Look Ahead



	February	March	April	May	June	July
North Point						
Excavation: Debris/Impacted Soil						
Backfill						
Excavation: Beneath Bldg 1235						
RSY Pad Construction/Operations						
Bayside						
Excavation: Clean Backfill						
Excavation: Buffer Backfill						
Excavation: Impacted Soil						
Backfill						
Excavation: Burn Area						
RSY Pad Operations						
Westside						
Excavation: Deep Waste Area						
Backfill						
RSY Pad Operations						
Site 32/Bigelow Cr.						
RSY Pad Processing						
Dust and Air Monitoring						

Low Level Radiological Object (LLRO) Status Update



- 813 LLROs overall at Treasure Island to date
- Since Site 12 field work started (May 2015), **203** LLROs have been extracted and removed:
 - **Building 1321 Deep Debris Boxes: 87 LLROs**
 - **SWDAs: 116 LLROs**

Schedule of Milestones



- May 2015 – Excavations Started**
- May 2016 – Excavations Complete**
- May 2016 – Radiological Field (Final Status) Surveys Complete**
- June 2016 – Soil Pad Processing Complete**
- June 2016 – Site Restoration Complete**
- July 2016 – Waste Disposal Complete**
- Aug 2016 – Final Status Survey Report**
- Aug 2016 – Final Remedial Action Completion Report**



Artistic renderings from TIDA website

Contact Information



**Keith Forman,
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QUESTIONS?



REMOVAL AND FINAL STATUS SURVEY OF HISTORIC AVENUE “N” WOOD STAVE PIPE

NAVAL STATION TREASURE ISLAND,
SAN FRANCISCO, CALIFORNIA

RAB Meeting
February 23, 2016

Presentation Overview



- Site Background
- Project Tasks and Objectives
- Work Progress
- Upcoming Work
- Contact information



Site Background



The Navy is investigating an inactive storm drain line for possible radioactive contamination.

The storm drain line was decommissioned in the mid-1970s when the current storm drain lift station and drainage swale were installed. During decommissioning activities, a portion of the eastern-most inactive storm drain line was removed and the void space was backfilled; the remaining portion of the storm drain line was partial filled with concrete.

The historic drain line is constructed of wood staves (similar to a wooden barrel), which was typical of the initial infrastructure at Treasure Island.



Project Tasks and Objectives



Project Tasks

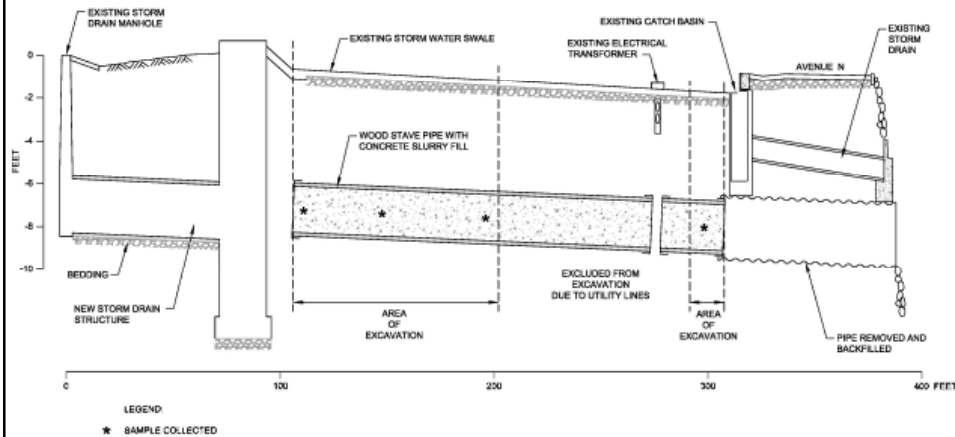
- Install a sewer bypass line (shown at left)
- Remove concrete swale
- Remove soil and inactive pipe
- Sample and survey materials
- Backfill and restore site

Objective:

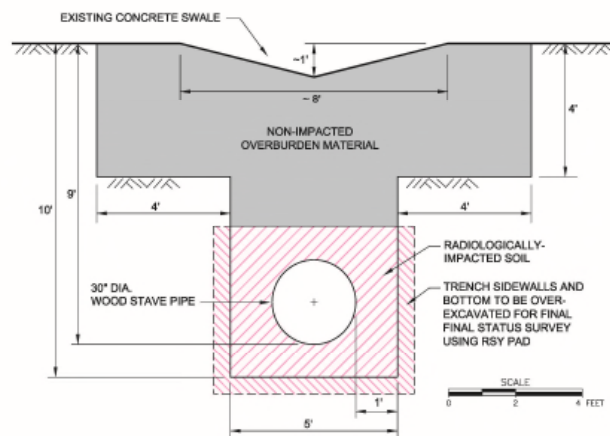
- Locate, excavate, and characterize the inactive pipe and its associated materials for possible radium contamination.
- Conduct radiological surveys on the pipe and soil surrounding the pipe to support characterization and release of the project area.



Profile View of Excavation Area



Cross Section View of Excavation Area



Work Progress



- 12/11/2015: Completed site set up
- 12/11/2015: Traffic detours on Avenue M, Avenue N, and California St. put in place
- ***Traffic detours will be enforced through duration of field work Dec 2015 through March 2016***
- 01/07/2016: Finished the swale bypass
- 01/12/2016: Finished removing the concrete swale west and east sections



Example of road closure signs on California St.



Example of fence line signs showing that the construction area and contact information

- 02/02/2016: Completed soil and pipe excavation in the west and east ends
 - Total Length Excavated = 108 ft
 - Approximate amount of removed material = 438 cubic yards

Work Progress

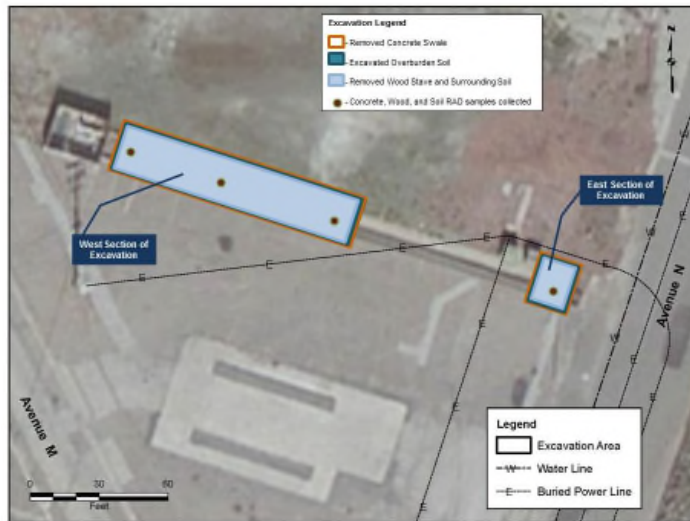


Removal of drainage swale above inactive pipe



Completed excavation looking to the east

Work Progress



Excavation was performed in two sections: East and West:

East Section:

- Approximately 12 ft long
- 48 yd³ of material removed

West Section:

- Approximately 96 ft long
- 390 yd³ of material removed

Data collected to date indicate **NO CONTAMINATION**

Current Status of Work



Current Status of Work



11

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February 2016

Current Status of Work - Excavation



Loading soil from excavation



Stockpiled steel bands removed along the length of the excavation

12

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February 2016

Current Status of Work - Excavation



Radiation survey of soil removed from eastern section of excavation



Radiation survey of wood fragments from eastern section of excavation



Tongue and groove construction of wooden pipe line

Current Status of Work - Sampling



Left and Top Right: sampling concrete for rad and chemical characterization



Bottom Right: collecting static readings on wood pieces pulled from the pipe structure for analysis.

Upcoming Work

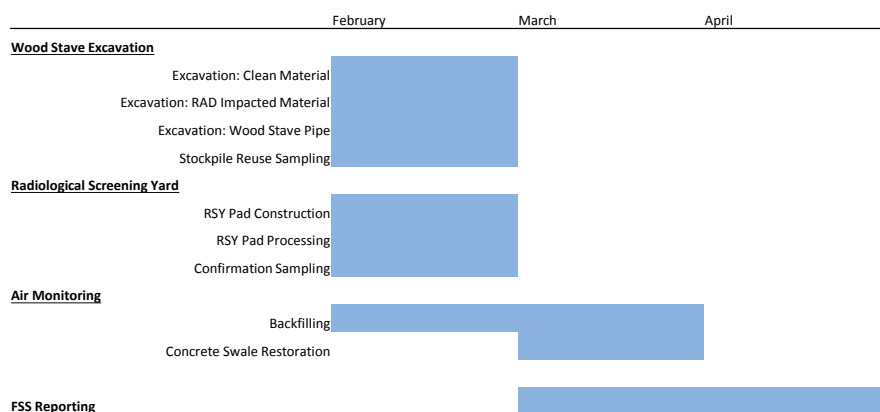


- Excavated soil and debris will be surveyed and sampled for radioactive contamination
- Documentation of sample results to support site characterization and release of the project area.
- Backfilling and site restoration

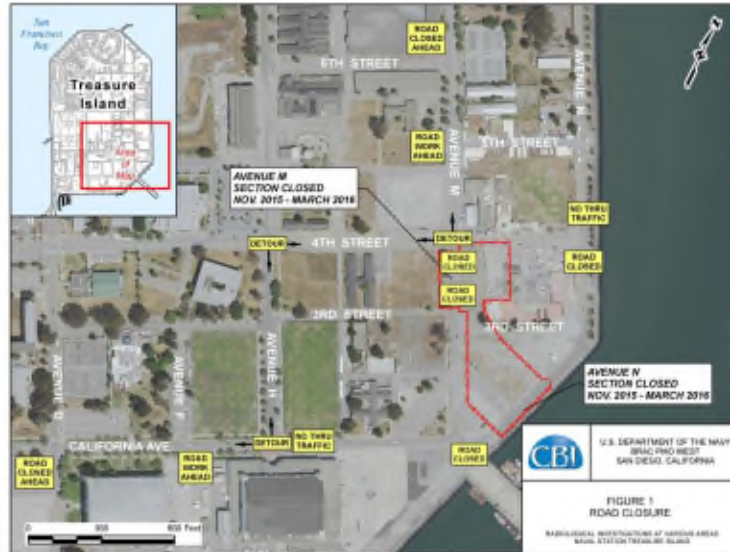


Stockpiled clean materials for use as backfill

Activity Schedule – 3 Month Look Ahead



Traffic Detour Map



17

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Questions?



18

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February 2016

Contact Information



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**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
February - July 2016**

			DRAFT								RTC				FINAL			
Item	Document Title & Information	C/O/DO	Draft to Agencies		Agency Comments						Priority Review	Preliminary RTCs to Agencies		Resolve and Concur on RTCs		Final to Agencies		Comments
					Date Due	DISC	WATER BOARD	TIDA/TICD	RAB	OTHER								
Radiological Reports																		
1	FSS Report for Building 3	0006	10/15/15	✓	11/28/15	✓	X	✓			1	01/15/16	✓	02/26/16	03/04/16		RTCs received: Remob to collect reference material data set	
	RPM: Kimberly Noble																	
	PM: John Baur, Gilbane																	
	Historic Avenue N Storm Drain Removal WP	0012	10/15/15	✓	11/13/15	✓		X	✓			11/19/15	✓	11/25/15	✓	12/15/15	✓	
	RPM: Kimberly Noble																	
	PM: John Hackett, CB&I																	
2	Scoping Survey of Wastewater Lines Downstream from Former Bldg 233 Report - Part I	0006	12/30/15	✓	03/04/16			✓			2	03/18/16		04/01/16	04/11/16			
	RPM: Kimberly Noble																	
	PM: John Baur, Gilbane																	
3	FSS Report for Historic Avenue N Storm Drain	0012	04/01/16		05/02/16						3	05/16/16		05/30/16	06/09/16			
	RPM: Kimberly Noble																	
	PM: John Hackett, CB&I																	
4	FSS Report for Storm/Waste Water Lines - Part II	0012	03/21/16		04/20/16						4	05/12/16		05/26/16	06/06/16			
	RPM: Kimberly Noble																	
	PM: Lisa Bercik, CB&I																	
5	FSS Report for Site 6	0025	02/22/16	✓	03/23/16						5	04/02/16		04/16/16	05/06/16			
	RPM: Louie Cardinale																	
	PM: Shanti Montgomery, TtEC																	
6	FSS Report for Northeast Corner	0012	04/01/16		05/02/16						6	05/16/16		05/31/16	06/10/16			
	RPM: Kimberly Noble																	
	PM: Lisa Bercik, CB&I																	
7	FSS Report for Catch Basins	0012	04/15/16		05/16/16						7	05/31/16		06/14/16	06/24/16			
	RPM: Kimberly Noble																	
	PM: Lisa Bercik, CB&I																	
8	FSS Report for Site 32A	0006	04/29/16		05/31/16						8	06/14/16		06/28/16	07/08/16		Remob to collect additional data	
	RPM: Kimberly Noble																	
	PM: John Baur, Gilbane																	
9	FSS Report for Site 24 (Building 342, Lot 69)	0012	04/01/16		05/03/16						9	05/25/16		06/01/16	06/10/16			
	RPM: Kimberly Noble																	
	PM: Lisa Bercik, CB&I																	
10	FSS Report for Site 20	0012	04/15/16		05/16/16						10	06/07/16		07/07/16	07/18/16			
	RPM: Kimberly Noble																	
	PM: Lisa Bercik, CB&I																	
11	Site 30 Radiological WP/SAP Addendum	0012	02/08/16	✓	03/08/16		X				11	03/11/16		03/14/16	03/22/16			
	RPM: Louie Cardinale																	
	PM: Lisa Bercik, CB&I																	
12	Site 31 Data Gaps Investigation WP/SAP	0014	01/06/16	✓	02/23/16		X	✓			12	03/01/16		03/08/16	03/21/16			
	RPM: Louie Cardinale																	
	PM: Lora Battaglia, CB&I																	
13	FSS Report for Site 30/30N/30S	0012	06/27/16		07/27/16						13	08/06/16		08/13/16	08/29/16			
	RPM: Louie Cardinale																	
	PM: Lisa Bercik, CB&I																	
14	FSS Report for Site 31	0014	08/09/16		09/12/16						14	09/26/16		10/08/16	10/20/16			
	RPM: Louie Cardinale																	
	PM: Lora Battaglia, CB&I																	
Site 6																		
15	RD/RAWP	0003	12/11/15	✓	01/11/16	✓	✓	✓				02/24/16		03/10/16	04/01/16			
	RPM: Bryce Bartelma																	
	PM: Ted Tyler, CE2 Kleinfelder																	
Site 12																		
16	TCRA WP	0006	03/11/16		04/11/16							04/25/16		05/09/16	05/30/16			
	RPM: Bryce Bartelma																	
	PM: Ted Tyler, CE2 Kleinfelder																	
17	PP/RAP	3208	12/30/15	✓	01/29/16	✓	✓	✓				02/19/16		03/04/16	03/21/16			
	RPM: Bryce Bartelma																	
	PM: Karen Miller, Helios																	

**Naval Station Treasure Island
Environmental Cleanup Program
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February - July 2016**

			DRAFT										RTC				FINAL			
Item	Document Title & Information		CTO/DO	Draft to Agencies		Agency Comments					Priority Review	Preliminary RTCs to Agencies		Resolve and Concur on RTCs		Final to Agencies		Comments		
						Date Due	DISC	WATER BOARD	TIDA/TICD	RAB										OTHER
Site 24																				
	ROD/RAP		0058	05/06/15	✓	06/05/15	✓	✓	✓	✓			07/27/15	✓	11/23/15	✓	12/10/15	✓		
	RPM: Danielle Janda																			
	PM: Jean Michaels, TriEco-Tt																			
18	RD/RAWP		0005	03/08/16		04/05/16							05/03/16		06/09/16		06/23/16			
	RPM: Mukesh Mehta																			
	PM: Carrie Ross, Parsons																			
Site 32																				
19	ROD/RAP		3208	12/22/15	✓	02/16/16	✓						03/17/16		04/14/16		04/28/16			
	RPM: Kimberly Noble																			
	PM: Karen Miller, Helios																			
Other Reports																				
20	2016 Finding of Suitability to Lease (FOSL)		0058	TBD		TBD							TBD		TBD		TBD			
	RPM: Sarah Ann Moore																			
	PM: Dennis Kelly, TriEco-Tt																			
21	Finding of Suitability to Transfer (FOST) 5		:	TBD		TBD							TBD		TBD		TBD			
	RPM: John Hill																			
22	2016 Basewide LUC Inspection Report		0058	03/16/16		04/15/16							04/29/16		05/13/16		05/27/16			
	RPM: Kimberly Noble																			
	PM: Jessica O'Sullivan, TriEco-Tt																			
23	2015 Basewide GW Monitoring Report		:	07/20/16		08/17/16							08/31/16		09/26/16		10/14/16			
	RPM: Louie Cardinale																			
	PM: Patrick Hamner, Trevet																			

✓ Production or review of document is complete. Abbreviations:

X Received notification of no comments or comments deferred to other agency.

Grey shading indicates the document is finalized.

Blue shading indicates agency review comments are due within the next 60 days or are outstanding.

Yellow shading indicates documents that will be issued draft or final within the next 60 days.

CTO/DO = Contract task order/delivery order
DTSC = Department of Toxic Substances Control
EPA = U.S. Environmental Protection Agency
FS = Feasibility study
FSS = Final status survey
LUC = Land use control
NA = Not applicable
NTCRA = Non-time critical removal action
PCSR = Post-construction summary report
PM = Project manager
PP = Proposed plan
RACR = Remedial action completion report
RAP = Remedial action plan
RAWP = Remedial action work plan

RD = Remedial design
ROD = Record of decision
RPM = Remedial project manager
RTC = Response to comments
SAP = Sampling and analysis plan
SWDA = Solid waste disposal area
TBD = To be determined
TCRA = Time-critical removal action
TICD = Treasure Island Community Developers
TIDA = Treasure Island Development Authority
TPH = Total petroleum hydrocarbons
TSP = Task specific plan
Water Board = Regional Water Quality Control Board

**Naval Station Treasure Island
Navy Field Schedule
February - July 2016**

Item	Activity and Investigation Area	Field Dates		Navy RPM (Contractor)	Complete
Site 6					
1	Remedial Action	Start:	04/04/16	Bryce Bartelma (CE2 Kleinfelder)	
		Finish:	05/06/16		
Site 12					
2	Phase III Non-Time Critical Removal Action	Start:	05/12/15	Chris Yantos (CB&I)	
		Finish:	06/07/16		
3	Time Critical Removal Action (Gateview, Discrete Areas, Halyburton)	Start:	06/14/16	Bryce Bartelma (CE2 Kleinfelder)	
		Finish:	01/09/17		
Site 24					
4	Soil Gas Data Gaps Investigation	Start:	07/13/15	Mukesh Mehta (Trevet)	
		Finish:	05/13/16		
5	Remedial Action	Start:	06/27/16	Mukesh Mehta (Parsons)	
		Finish:	11/11/16		
Site 31					
6	Final Status Survey - Additional Field Work	Start:	03/14/16	Louie Cardinale (CB&I)	
		Finish:	05/18/16		
Other					
7	Historic Avenue N Storm Drain Removal	Start:	12/07/15	Kimberly Noble (CB&I)	
		Finish:	03/18/16		
8	Basewide Groundwater Monitoring	Start:	03/14/16	Louie Cardinale (TBD)	
		Finish:	03/18/16		

Abbreviations:

✓ Field work is complete
RPM Remedial project manager
TBD To be determined

Yellow shading indicates field activities that will start or finish within the next 60 days.

Grey shading indicates field activities are complete.